

WHAT IS CLAIMED IS

1. A method for developing and executing software applications at an abstract design level, the method comprising:

capturing an application logic at the abstract design level as one or more visual models for developing a software application, the visual models being independent from an underlying programming technology;

deploying the captured application logic to an execution platform;

executing the application logic from the execution platform in response to an external request sent by an external client device, the external request having one or more parameters;

processing the external request;

returning one or more response objects after processing the external request; and

presenting the converted response objects to the external client device.

2. The method of claim 1 wherein the step of processing further includes converting the parameters of the external request to one or more objects and passing the converted parameters to the application logic.

3. The method of claim 1 wherein the step of presenting further includes converting the response objects to a predetermined format based on a type of the external client device or the parameters of the external request.

4. The method of claim 1 wherein the step of capturing further includes generating one or more storage device schemas in at least one storage device as required by the captured application logic.

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5. The method of claim 1 wherein the step of deploying further includes saving the captured application logic to the execution platform.

6. The method of claim 1 wherein the step of executing further includes:

retrieving one or more objects from at least one storage device; and
updating one or more storage device schemas in the storage device.

7. The method of claim 1 wherein the step of capturing further includes:

defining one or more interrelated objects for the visual models; and
constructing one or more high-level structure containing one or more
formulas to represent the application logic.

8. The method of claim 7 wherein the step of defining further includes, for each object, defining at least one object type, attribute, relationship to at least one other object, and expected behavior.

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9. A method for developing and executing software applications at an abstract design level, the method comprising:

capturing an application logic at the abstract design level as one or more visual models for developing a software application, the visual models being independent from an underlying programming technology;

deploying the captured application logic to an execution platform;

generating one or more storage device schemas in at least one storage device as required by the captured application logic;

executing the application logic from the execution platform in response to an external request sent by an external client device, the external request having one or more parameters;

converting the parameters of the external request to one or more objects;

processing the external request;

returning one or more response objects after processing the external request;

converting the response objects to a predetermined format based on the type of the external client device or the parameters of the external request; and

presenting the converted response objects to the external client device.

10. The method of claim 9 wherein the step of processing the external request further includes passing the converted parameters to the application logic.

11. The method of claim 9 wherein the step of deploying further includes saving the captured application logic to the execution platform.

12. The method of claim 9 wherein the step of executing further includes:

retrieving one or more objects from the storage device; and
updating the storage device schemas.

13. The method of claim 9 wherein the step of capturing further includes:

defining one or more interrelated objects for the visual models; and
constructing one or more high-level structure containing one or more
formulas to represent the application logic.

14. The method of claim 13 wherein the high-level structure is a
process.

15. The method of claim 13 wherein the high-level structure is a rule.

16. The method of claim 13 wherein the step of defining further
includes, for each object, defining at least one object type, attribute, relationship
to at least one other object, and expected behavior.

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17. A system for developing and executing software applications at an abstract design level, the system comprising:

a visual modeling tool for capturing an application logic at the abstract design level as one or more visual models for developing a software application, the visual models being independent from an underlying programming technology;

means for deploying the captured application logic to an execution platform;

means for executing the application logic from the execution platform in response to an external request sent by an external client device, the external request having one or more parameters;

means for processing the external request;

means for returning one or more response objects after processing the external request; and

means for presenting the converted response objects to the external client device.

18. The system of claim 17 wherein the means for processing further includes means for converting the parameters of the external request to one or more objects and passing the converted parameters to the application logic.

19. The system of claim 17 wherein the means for presenting further includes means for converting the response objects to a predetermined format based on the type of the external client device or the parameters of the external request.

20. The system of claim 17 wherein the means for capturing further includes generating one or more storage device schemas in at least one storage device as required by the captured application logic.

21. The system of claim 17 wherein the means for executing further includes means for:

retrieving one or more objects from at least one storage device; and
updating one or more storage device schemas in the storage device.

22. The system of claim 17 wherein the means for capturing further includes means:

defining one or more interrelated objects for the visual models; and
constructing one or more high-level structure containing one or more
formulas to represent the application logic.

23. The system of claim 22 wherein the step of defining further includes, for each object, means for defining at least one object type, attribute, relationship to at least one other object, and expected behavior.

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